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СОВЕТСКАЯ АКАДЕМИЯ НАУК

Институт ядерной физики

Академик Б.Л. Вильямс

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S/120/60/000/005/002/051  
E032/E514*24.6810*

## AUTHORS:

Chasnikov, I.Ya., Takibayev, Zh.S., Tursunov, R.A.  
and Sharapov, K.V.

## TITLE:

Measurement of Multiple Scattering on the Tracks of  
 $\sim 10$  GeV Protons /9

## PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.5, pp.15-19

A large number of papers have been published on the multiple scattering of charged particles in nuclear emulsions (Refs.1-10 and others) in which it is concluded that micro-distortions of the emulsion give rise to spurious scattering. These local distortions are a serious problem in high-accuracy work. Other sources of spurious scattering, such as stage noise, thermal noise etc. can now be adequately allowed for so that the local distortion is a residual effect still to be overcome. The present authors have measured the multiple scattering in НИКФИ -Р (NIKFI-R) 27 emulsions  $450 \mu$  thick using the МБИ-8 m (MBI-8 m)<sup>28</sup> microscope. The 10 GeV synchrophasotron of the Joint Institute for Nuclear Studies was used as the source of the protons. The total length of tracks examined was 2.8 m and the mean length per track was 5 cm. The

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## AUTHORS:

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## TITLE:

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## PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.5, pp.15-19

TEXT: A large number of papers have been published on the multiple scattering of charged particles in nuclear emulsions (Refs. 1-10 and others) in which it is concluded that micro-distortions of the emulsion give rise to spurious scattering. These local distortions are a serious problem in high-accuracy work. Other sources of spurious scattering, such as stage noise, thermal noise etc. can now be adequately allowed for so that the local distortion is a residual effect still to be overcome. The present authors have measured the multiple scattering in НИКФИ -Р (NIKFI-R) <sup>27</sup> emulsions 450  $\mu$  thick using the МБИ-8 m (MBI-8 m) <sup>28</sup> microscope. The 10 GeV synchrophasotron of the Joint Institute for Nuclear Studies was used as the source of the protons. The total length of tracks examined was 2.8 m and the mean length per track was 5 cm. The

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following methods were used to analyse the data obtained. The second difference  $\bar{D}$  can be written down in the form

$$\bar{D}^2 = \bar{D}_k^2 + n^2 \quad (1)$$

where  $\bar{D}_k$  is the contribution due to Coulomb scattering and is equal to  $1.74 Kt^{3/2}/PV$ , where  $P$  is the momentum,  $V$  is the velocity,  $K$  is the scattering constant and  $n$  is the contribution due to spurious scattering. When  $\bar{D}_k \leq 4n$ , the quantity  $n$  can be excluded by various methods, for example, by taking higher differences (Ref.10). The spurious scattering  $n$  can be looked upon as consisting of two parts, one of which depends on the cell size and the other does not. The latter can always be subtracted from the measured  $\bar{D}$  in which case Eq.(1) can be re-written in the form

$$\bar{D}^2 = (1.74 K/PV)^2 t^3 + a^2 t^{2x} \quad (2)$$

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On the other hand, the method of three multiple cells described by Chasnikov et al. (Ref.8) gives

$$\bar{D}_K = \left( \frac{\bar{D}_1^2 \bar{D}_4^2 - \bar{D}_2^4}{64\bar{D}_1^2 + \bar{D}_4^2 - 16\bar{D}_2^2} \right)^{1/2} \quad (3)$$

where  $\bar{D}_1$ ,  $\bar{D}_2$  and  $\bar{D}_4$  are the mean second differences for cells in the ratio 1:2:4. If one takes into account the fact that the scattering constant K depends on the cell size, the numbers 64 and 16 in Eq.(3) should be replaced by 68 and 16.48. The spurious scattering n can be independently determined and excluded by using higher differences, for example, third, fourth etc. differences. The higher differences also exclude systematic distortions. Chasnikov (Ref.10) has also shown that the dependence of the higher

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differences on  $\bar{D}_K$  and  $n$  is

$$n = 0.5222(2\bar{D}^{III^2} - 3\bar{D}^2)^{1/2}, \quad (5)$$

$$n = 0.2(9\bar{D}^{IV^2} - 24\bar{D}^{III^2})^{1/2}, \quad (6)$$

$$\bar{D}_K = 0.4264(10\bar{D}^2 - 3\bar{D}^{III^2})^{1/2}, \quad (5')$$

$$\bar{D}_K = (2.8\bar{D}^{III^2} - 0.8\bar{D}^{IV^2})^{1/2} \quad (6')$$

$\bar{D}_K$  can be found from Eqs.(5') or (6') only in the case of good statistics, since small statistical fluctuations in  $\bar{D}^{III}$  or  $\bar{D}^{IV}$  have a strong effect on  $\bar{D}_K$ . As the order of the difference increases, the contribution due to spurious scattering to this difference for a given cell will also increase. It is, therefore, desirable to determine this spurious scattering with the aid of the

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higher order differences. The spurious scattering cannot be determined when the statistical error  $\Delta D_{st} \approx n$ . When  $\Delta D_{st} > n > D_K$  the energy cannot be determined at all. The best results for the energy when  $\Delta D_{st} \approx n$  are obtained when the scattering is measured using the optimum cell size  $t_{opt}$ . Chasnikov (Ref.10) has described a method for determining  $t_{opt}$  from the experimentally determined  $t_{min}$  for which  $\bar{D}/t$  is a minimum. The quantity  $t_{opt}$  depends on the length of the track  $R$  and  $t_{min}$  in the following way:

$$t_{opt} \sim R^{\frac{1}{2(2-X)}} t_{min}^{\frac{3-2X}{2(2-X)}}$$

where  $t_{opt}$ ,  $t_{min}$  and  $R$  are in units of  $100 \mu$ . According to the measurements carried out by the present authors and also other data  $X < 1$ . When  $X = 0.5$ ,  $t_{opt} = cR^{1/3}t_{min}^{2/3}$ . With this value of  $X$

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S/120/60/000/005/002/051  
E032/E514Measurement of Multiple Scattering on the Tracks of  $\sim 10$  GeV Protons $t_m = t_o$ , where  $t_o$  is the cell size corresponding to  $D_K = n$ .It should be noted that  $t_{min}$  is not always equal to  $t_o$ , since the spurious scattering index  $X$  may not be the same for different emulsions. In finding  $t_o$  it is convenient to use the ratios $\rho = \bar{D}^{III}/\bar{D}$  and  $q = \bar{D}^{IV}/\bar{D}$ . When  $\bar{D}_K = n$ ,  $\rho = 1.55$  and  $q = 2.8$ .However, in the presence of systematic distortions of tracks it is better to use the ratio  $\bar{D}^{IV}/\bar{D}^{III}$  or the equivalent ratio  $q/\rho$ , which is less dependent on systematic errors. The following table gives the mean values of the second differences for different cells and also the values of  $\rho$  and  $q$  obtained in the present work.

$t, \text{mm}$	$\bar{D}, \mu$	Number of second differences/ degree of overlapping	$\rho$	$q$
0.5	0.221	4966/1	1.75	3.23
1	0.333	4832/2	1.66	3.10
2	0.600	4592/4	1.44	2.58
4	1.529	3536/3	1.18	1.72
8	4.553	1344/16	1.12	1.87

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The following table gives the values of PV determined by different methods (in GeV)

t, mm	2	3	4	5	6
0.5	2.5	1.8	1.6	$11.9 \pm 2.4$	-
1	4.7	3.5	3	$9.36 \pm 0.67$	$9.8 \pm 2.0$
2	7.7	6.5	6	$8.98 \pm 0.90$	$10.7 \pm 1.0$
4	8.8	9.1	8.7	-	$9.82 \pm 0.63$
8	8.6	9.3	9.1	-	$9.96 \pm 1.5$

The first, third and fourth columns give the values of PV without allowing for spurious scattering and based on second, third and fourth differences, respectively, with  $\bar{D}_K$  assumed equal to

$\bar{D}$ ,  $\bar{D}^{III}/\rho_K$ ,  $\bar{D}^{IV}/q_K$ . Columns 5 and 6 give the values obtained by Card 7/8

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E032/E51<sup>4</sup>

Measurement of Multiple Scattering on the Tracks of  $\sim 10$  GeV  
Protons

the multiple cell method and with the aid of Eq.(6'). It was found that in the emulsion used by the present authors the spurious scattering  $n$  follows the power law  $n = 0.08 t^{0.6}$ . It is thus found that provided the spurious scattering is allowed for, the energy of charged particles can be determined by the multiple scattering method in the region of 10 GeV. At this energy the spurious scattering is negligible for a cell size of  $t = 4$  mm. Acknowledgments are made to V. I. Veksler and M.I.Podgoretskiy for supplying the nuclear emulsions irradiated with protons obtained from the above machine. There are 2 figures, 4 tables and 11 references: 3 Soviet, 1 German and 7 English.

ASSOCIATION: Institut yadernoy fiziki AN KazSSR (Institute of  
Nuclear Physics, AS, KazSSR)

SUBMITTED: July 14, 1959

Card 8/8

TURSUNOVA, R. N.; ABUBAKIROV, N. K.

Glycosides of plants of the genus Erysimum. Part 4: Glycosides  
of Erysimum gypsaceum. Zhur. ob. Khim. 34 no.6:2084-21088 Je '64.  
(MIRA 17:7)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.

GAFUROV, A.T.; AYKHODZHAYEV, T.T.; ABDURASHITOV, K.; TURSUNOV, S.:  
KOVAL'SKIY, N.I.; MULLOKANDOV, R.N.; REZNIK, G.P.; YAKUBOV, L.M.

Change of certain characteristics of cotton and kenaf under the  
action of ultrasound. Prim. ul'traakust. k issl. veshch. no.14:  
121-127 '61. (MIRA 14:12)

(Ambary hemp) (Cotton)  
(Ultrasonic waves--Industrial applications)

ATAULLAYEV, N.A.; ABOLINA, G.I.; TURSUNOV, S.; ABDURASHITOV, K.

Effect of ultrasound on the development of melons. Uzb. biol. zhur.  
6 no.2:25-29 '62. (MIRA 15:4)

1. Gosudarstvennyy pedagogicheskiy institut imeni Nizami.  
(PLANTS, EFFECT OF ULTRASONIC WAVES ON) (MELONS)

S/275/63/000/001/033/035  
D413/D308

AUTHORS: Ataullayev, N. A., Abolina, G. I., Tursunov, S. and Abdurashitov, K.

TITLE: The effect of ultrasonic vibration on the development of melons

PERIODICAL: Referativnyy zhurnal, Elektronika i yeye primeneniye, no. 1, 1963, 18, abstract IV 131 (Uzb. biol. zh., no. 2, 1962, 25-29 (summary in Uzb.))

TEXT: The authors have studied the effect of ultrasonic waves on the seeds of the Kokcha type of melon. The melon seeds were first steeped in water for 24 hours at room temperature. The ultrasonic treatment of the seeds was carried out at frequencies of 1 Mc/s, 1.25 Mc/s and 23 kc/s with exposures of 1, 3, 6, 9 and 12 minutes. The experimental results showed for example, that ultrasonic treatment of the seeds at 1 Mc/s for an exposure of 3 - 4 minutes stimulates the growth and development of the plants, and in individual cases raises the productivity by 20-40%. [Abstracter's note: Complete translation.]

Card 1/1

TURSUNCY, S. T.

Sheep - Kirghizistan

Kirghiz fine-wooled sheep industry. Sets.zhiv., 14, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, June 1952 Uncl.

TURSUNOV, S. T.

"Wool Production from Fine-Wool Sheep of Hybrid Origin at the Best Sovkhozes of the Kirghiz SSR." Cand Agr Sci, All-Union Sci Res Inst of Animal Husbandry, Moscow, 1953. (RZhBiol, No 3, Oct 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

So: Sum. No. 481, 5 May 55

TURSUNOV, S.

All-Union Inst. of Animal Husbandry

"Methods for Increasing the Sheep Stock in Kirgiz SSR," Kyzyl Kyrgyzstan, 7 Jan 1953

Translation W-25902, 14 Apr 53

L 12122-00 EWT(m)/EWP(j)/EWP(k)/T IJPic 04/04  
ACC NR: AR6023331 SOURCE CODE: UR/0282/66/000/003/0056/0057

AUTHOR: Mirbabayev, V.; Abdurashitov, K.; Tursunov, S.

TITLE: Stabilization of the dimensions of Kapron parts in an ultrasonic field

SOURCE: Ref. zh. Khimicheskoye i kholodil'noye mashinostroyeniye, Abs. 3.47.408

REF SOURCE: Tr. I-y Mezhvuz. nauchn. konferentsii po primeneniyu molekul. akust. k issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 273-275

TOPIC TAGS: ultrasonic irradiation, Kapron cafrene

ABSTRACT: The paper gives a brief description of the method and results of the use of an ultrasonic device for stabilizing the dimensions of bushings of K-21/Kapron by treatment in an ultrasonic field in a machine-oil medium. The thermal treatment of the bushings was carried out at vibration frequencies of 23.5 Kc, a temperature of  $130 \pm 5^\circ\text{C}$ , and exposures of 5, 15, and 25 min. The experiments showed that thermal treatment in an ultrasonic field sharply reduces the duration of the heating, which amounts to 5-25 min instead of the 2-4 hr required in the absence of ultrasound. An increase in the stability of the dimensions of the bushings as compared to ordinary methods of treatment, and also an improvement in the plasticity and strength of the parts were observed. However, the studies showed an inadequate stability in many cases. N. Solov'yev. [Translation of abstract]

SUB CODE: 11

Card 1/1 MLP

GANIYEV, U.G.; TURSUNOV, Sh.T.

Antibiotic sensitivity of typhoid pathogens isolated from  
children and the problems of antibiotic therapy. *Med. zhur.*  
Uzb. no.9:41-42 S '62. (MIRA 17:2)

1. Iz kafedry infektsionnykh bolezney Andizhanskogo medi-  
tsinskogo instituta.

TURSUNOV, G. (R18AZA - Tashkent); POPOV, V. (Ashkhabad); ZHIGROVA, S.  
(Byazan'); KAYGORODOVA, Yu. (RA9CES - Sverdlovsk)

Youth is on the air. Radio no.1:24-25 Ja '60.  
(MIRA 13:5)  
(Radio clubs) (Amateur radio stations)

TURSUNOV, T., aspirant

Artificial infection by Phytophthora. Zashch. rast. ot vred. i bol.  
9 no. 9:42 '64. (MIRA 17:11)

1. Vsesoyuznyy institut zashchity rasteniy.

TURUTA, N.U., dotsent; LEGEZA, V.D., kand.tekhn.nauk

Comparative evaluation of boring machinery equipped with air  
sinkers. Izv.vys.ucheb.zav.; gor.zhur. no.4:57-64 '59.  
(MIRA 13:5)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.  
Rekomendovana kafedroy gornykh mashin i rudnichnogo.transporta.  
(Boring machinery)

TURSUNCV, S. --

"Controlled Training of Hybrids to Obtain Early-Ripening Forms of Cotton."  
Cand Agr Sci, Tashkent Agricultural Inst, Tashkent, 1953. (RZbBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher  
Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10881

Author : Tursunov, S.

Inst :

Title : The Effect of Training Cotton Hybrids on Various Rootstocks.

Orig Pub : Sots. s. kh. Uzbekistana, 1957, No 2, 72-73

Abstract : *F<sub>1</sub>* hybrids accelerated their development when grafted onto quick-maturing older parental forms. They behaved differently from hybrids grafted onto quick-maturing forms of a similar age or younger (as regards phases of development) or late-maturing forms. The conclusion is that when hybrids are trained on quick-maturing rootstocks, they develop a seed generation with a shorter vegetation period.

Card 1/1

3

USSR / Cultivated Plants. Plants for Technical Use, II-6  
Sugar Plants.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73032.

Author : Tursunkhodzhayev, Z.

Inst : All-Union Scientific-Research Institute of Cotton  
Growing.

Title : System of Agrotechny and Improvement Measures to  
Provide High Cotton Harvests in the Golodnaya Steppe.

Orig Pub: Byul. nauchno-tekh. inform. Vses. n.-i. in-ta  
khlopkovodstva, 1957, No 1, 53-72.

Abstract: General material is presented on problems of agricultural engineering and improvement which contribute to obtaining high cotton harvests from the irrigated lands of the Golodnaya Steppe; the material was obtained from the "Pakhta-Aral'skaya Experimental Station, at the "Pakhta-Aral" Sovkhoz, and at

Card 1/2

TURSUNOV, Z.T....

Effect on blood vessels of water from drilled radon well No.106  
at Pyatigorsk. Dekl. AN Uz. SSR no.7:63-66 '56.

(MIRA 12:6)

1. Tashkentskiy meditsinskiy institut im. V.M. Moletova.  
Predstavlene akad. AN UzSSR A.Yu. Yunusovym.  
(RADON--PHYSIOLOGICAL EFFECTS)  
(BLOOD VESSELS)

USSR/Human and Animal Physiology - Thermoregulation.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12569

Author : Yunusov, A.Yu., Tursunov, Z.T., Zakirova, V.S.

Inst : AS Uzbek SSR

Title : Influence of Certain Drinks on the Blood with High Temperature and Dehydration of the Organism

Orig Pub : UzSSR fanlar Akad. akhboroti. Med. fanlari ser., Izv. AN UzSSR. Ser. med., 1958, No 1, 11-21

Abstract : No abstract.

Card 1/1

- 29 -

TURSUNOV, Z.T.; POPOVA, N.G.; BELOVA, E.S.

Effect of various beverages on urine secretion at high temperatures. Izv.AN Uz.SSR.Ser.med. no.4:47-58 '58.

1. Institut krayevoy meditsiny AN UzSSR.  
(URINE--SECRESSION) (HEAT--PHYSIOLOGICAL EFFECT)  
(MIRA 12:5)

TURSUNOV, Z.T.

Change in the blood indexes of healthy and decorticated  
dogs at high temperatures. Izv.AN Uz.SSR.Ser.med. no.5:  
28-32 '59. (MIRA 13:3)

1. Institut krayevoy meditsiny AN UzSSR.  
(HEAT--PHYSIOLOGICAL EFFECT) (BRAIN)  
(BLOOD--EXAMINATION)

TURSUNOV, Z.T.

Change in the resistance of the erythrocytes in healthy and de-corticated dogs at high temperatures. Izv, AN Uz.SSR. Ser.med.  
no.6;21-24 '59. (MIRA 13:4)

1. Institut krayevoy meditsiny AN UzSSR.  
(ERYTHROCYTES) (HEAT--PHYSIOLOGICAL EFFECT)

TURSUNOV, Z.T.

Influence of the removal of the cerebral cortex on the chloride content  
of the blood, saliva, and urine under conditions of high temperature  
and solar radiation. Med. zhur. Uzb. no.8:57-60 Ag '60. (MIRA 13:9)

1. Iz laboratorii fiziologii (zav. - prof. A.Yu. Yunusov) Instituta  
kрайевой и экспериментальной медицины АН УзССР.  
(CEREBRAL CORTEX) (CHLORIDES IN THE BODY)  
(HEAT--PHYSIOLOGICAL EFFECT)

TURSUNOV, Z.T.

Influence of section of the spinal cord and removal of the cerebral cortex on some indexes of the blood, urine, and saliva. Med. zhur. Uzb. no.12:53-57 D '60. (MIRA 14:1)

1. Iz laboratorii fiziologii (zav. - akademik A.Yu.Yunusov)  
Instituta krayevoy i eksperimental'noy meditsiny AN UeSSR.  
(NERVOUS SYSTEM) (BODY FLUIDS)

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YUNUROV, A.Yu.; TURDUBOV, S.T.

Cortical regulation of the blood flow rate of brain. (in Russ.)  
Izdat. kraev. eksper. med. no.5-37. Leningrad. 1963.

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TURSUNOV, Z. T., Doc Bio Sci -- "The Water-salt Exchange  
under conditions of high temperature and the role of the  
cerebral cortex in its regulation." Tashkent, 1961. (Acad  
Sci UzSSR, Inst of Regional Exp Medicine) (KL, 8-61, 235)

- 130 -

AKHMEDOV, R.; TURSUNOV, Z.T.

Effect of mixed and basically protein food on the condition of heat regulation. Uzb. biol. zhur. 9 no.1:27-31 '65.

1. Uzbekskiy institut krayevoy meditsiny AMN SSSR.  
(MIRA 18:6)

TURSUNOV, Z.T.; TAGIROVA, D.A.

Interrelationship between the functions of the kidneys and the  
salivary glands. Uzb. biol. zhur. 8 no.5:39-44 '64  
(MIRA 18:2)

1. Institut krayevoy eksperimental'noy meditsiny AMN SSSR.

YUNUSOV, A.Yu.; TURSUNOV, Z.T.

Effect of repeated action of high temperatures on water-salt metabolism. Uzb.biol.zhur. 7 no.2:11-15'63. (MIRA 16:8)

1. Institut krayevoy eksperimental'noy meditsiny AN UzSSR.  
(WATER METABOLISM) (SALT IN THE BODY)  
(HEAT—PHYSIOLOGICAL EFFECT)

YUNUSOV, A.Yu.; TURSUMOV, Z.T.

Cortical regulation of seasonal changes in the water and salt  
content of the organism. Uzb.biol.zhur.6 no.4:42-45'62.  
(MIRA 16:7)

1. Institut krayevoy eksperimental'noy meditsiny AN UzSSR.  
(CEREBRAL CORTEX) (METABOLISM)

TURSUNOV, Z.T.; SADYKOV, A.S., doktor med. nauk, prof., ovt. red.;  
NURATDINOVA, M.R., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Cortical regulation of water and salt metabolism at high temperatures] Korkovaia regulatsiia vodno-solevogo obmena  
v usloviakh vysokoi temperatury. Tashkent, Izd-vo AN Uzb.  
SSR, 1963. 173 p. (MIRA 16:7)

(CEREBRAL CORTEX) (WATER METABOLISM)  
(HEAT--PSYSIOLOGICAL EFFECT)

TURSUNOV, Z. T.

"The role of the brain cortex in the water-salt metabolism regulation in a hot climate."

report submitted for the UNESCO/India Symposium on Environmental Physiology and Psychology in Arid Conditions, Lucknow, India 7-13 Dec 62

YUNUSOV, A.Yu.; TURSUNOV, Z.T.

Neural regulation of the blood under conditions of high temperature.  
Med. zhur. Uzb. no.2:53-59 F '62. (MIRA 15:4)

1. Iz Instituta krayevoy meditsiny AMN UzSSR.  
(NERVOUS SYSTEM) (HEAT—PHYSIOLOGICAL EFFECT)  
(BLOOD)

TURSUNOV, Z.T.

Nervous regulation of the water and salt metabolism in animals.  
Med.zhur. Uzb. no.11:42-45 N '60. (MIRA 14:5)

1. Iz laboratorii fiziologii (zav. - akademik A.Yu.Yurusov)  
Instituta krayevoy i eksperimental'noy meditsiny AN UzSSR.  
(ELECTROLYTE METABOLISM)

TURSUNOVA, R.N.; ABUBAKIROV, N.K.

Glycosides from the plants of the genus *Polygonum*. Part 5:  
Structure of gypsobioside. Zhur. ob. khim. 34 no. 7:2449-2455  
Jl '64 (MIRA 17:8)

1. Institut khimii rastitel'nykh veshchestv AN Uzbekskoy SSR.

CHUVAYEV, P.P.; TURSUNOVA, S.A.

Effect of wilting on the assimilation of phosphorus by tomatoes  
and lemon. Trudy Otd. fiziol. i biofiz. rast. AN Tadzh. SSR 1:  
106-142 '62. (MIRA 16:3)  
(Plants, Effect of aridity on) (Phosphorus metabolism)

TURSUNOVA, S.A.

Comparative study of the effect of lemoran, prinadol and morphine  
on the cerebral and myocardial tissue respiration. Farm. i toks.  
28 no.1:89-91 Ja-F '65. (MIRA 18:12)

1. Kafedra farmakologii (zav. - prof. V.V.Vasil'yeva) II Moskov-  
skogo meditsinskogo instituta imeni N.I.Pirogova. Submitted  
June 18, 1964.

ZAVARKIN, D., tyanul'shchik staleprovodchnogo tsekha; SUBBOTIN, A., stalevar  
martenovskogo tsekha; TURTANOV, I., starshiy master stana "750".

Our answer to George Meany, Vsem. prof. dvizh. no. 4:44-45 Ap '57.  
(United States--Labor and laboring classes) (MLRA 10:6)

BOGORIYUBSKIY, N.; BORISOV, S.; GRIGOR'YEV, N.; GUSAROV, M.; GUSEV, L.;  
ZHAROV, S.; ZHETVIN, N.; ZALOGIN, S.; ZOLOTOV, G.; INOZEMTSEV, N.;  
KLEMENT'YEVA, A.; KOMAROV, A.; KOSMACHEV, V.; LAPTEV, V.; LOMONOSOV, V.;  
MIKHAYLOV, A.; NOVIKOV, I.; PERTSEV, M.; PROKOPOVICH, P.; ROMANOV, I.;  
RUBLINSKAYA, R.; SVIRIDOV, G.; SOTNIKOV, G.; SUBBOTIN, A.; TURTAPOV, I.;  
CHESNOXOV, S.; CHICHKIN, K.; CHIKHANOV, I.

Grigorii Markelovich Il'in; an obituary. Metallurg 3 no.10:36 0 '58.  
(MIRA 11:10)  
(Il'in, Grigorii Markelovich, 1894-1958)

TURTANOV, I.I.

137-58-2-2865

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 95 (USSR)

AUTHOR: Turtanov, I.I.

TITLE: Advanced Work-planning Methods of Rolling-mill Operation  
(Perekovyye metody organizatsii truda na prokatnykh stanakh)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii, 1956, Vol 10,  
pp 276-283

ABSTRACT: A description is given of advanced work-planning methods for the operation of a 750 mill at the "Serp i Molot" Plant. The 750 mill in question consisted of 3 operating stands and one geared stand in a single-row arrangement. 800-kg ingots measuring 275x330x1450 mm were rolled into 140,90, and 50 mm squares or into 13-30x250 mm sheet bars, and some were rolled into 70-100 mm square finished stock. Improvements made in the mill are cited. As a result of these new methods and of the improvements made in the different parts of the mill the 1954 output showed an increase of 75 percent over the 1940 output.

D.M.

Card 1/1      1. Rolling mills--Operation    2. Industrial production--Planning

TURTANDY J.I.

Performance of a 750 rolling mill on an hourly schedule. Metallurg  
no.1:29-31 Ja '56. (MIRA 9:9)

1. Starshiy master stana 750 zavoda "Serp i molot".  
(Rolling (Metalwork))

TURTANOV, I.I., starshiy master stana "750" prokatnogo tsekha zavoda  
"Serp i molot"; LARIHA, L.M., redaktor; MALEK, Z., tekhnicheskij  
redaktor

[For the good of our country] Na blago rodiny. [Moskva] Izd-vo  
VTsSPS Profizdat, 1950. 87 p. [Microfilm] (MLRA 7:10)  
(Rolling (Metalwork))

DONIS, V.K.; MILLER, K.O.; TURTANOV, Yu.A.; KUTUKOV, F.Ye.

Transducer of the belt movement speed for electronic conveyor scales. Nauch. trudy KNIUI no.15:108-111 '64.

(MIRA 18:8)

BYRIKA, V.F.; DONIS, V.K.; TURTANOV, Yu.A.

Electric tensiometric scales for an apron conveyor. Nauch.  
trudy KNIUI no.15;115-121 '64. (MIRA 18:3,

TURSUNOVA, L.V.; ADKHAMOV, A.A., doktor fiz.-mat. nauk, otv. red.

Sultan Umarovich Umarov (1908-1964). Vstup. stat'ia  
O.V.Dobrovolskogo; Bibliografiia sost. L.V.Tursunovoi.  
Dushanbe, Izd-vo Akad. nauk Tadzhikskoi SSR, 1965. 57 p.  
(Materialy k biobibliografii uchenykh Tadzhikistana, no.7)  
(MIRA 19:1)  
1. Akademiya nauk Tadzhikskoy SSR. TSentral'naya nauchnaya  
biblioteka.

TURTEL' TAUB, N.M.; RYABCHUK, L.N.; MOROZOVA, S.N.; ZHUKHOVITSKIY, A.A.

Chromatographic determination of helium, neon, and hydrogen in-  
purities in air. Zhur. anal. khim. 19 no. 1:133-134 '64.  
(MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

SINGER, Evzen; RUZICKA, Bohuslav; TURTENWALD, Josef

Construction of an objective fluorometer for measurement of melt fluorescence, and equipment for determination of traces of uranium. Chem listy 58 no. 2:224-230 F '64.

1. Vyzkumny ustav anorganické chemie, Usti nad Labem.

ANDRIYEVSKIY, S.K.; SHAPIRO, M.N. [authors]; TURTIN, I.C., master [reviewer].

"Repair of electrical machines and of start regulating apparatus." S.K.  
Andrievskii, M.N.Shapiro. Reviewed by I.S.Turtin. Energetik 1 no.1:39-40  
(MLRA 6:8)  
Je '53. (Andrievskii, S.K.) (Shapiro, M.N.) (Electric machinery)

FEDORCSAK, Imre; TURTOCZKY, Istvan

Ammonia assimilation of Saccharomyces cerevisiae. Biol kozl 8  
no.2:145-150 '60.

1. Eotvos Lorand Tudomanyegyetem Szarmazas- es Oroklestani In-  
tezete, Budapest. Igazgato: Dr. Faludi Bela egyetemi tanar.

FEDORCSAK, Imre; TURTOCZKY, Istvan

Manometric determination of free amino group in biological materials.  
Biol. kozl 8 no.2:173-178 '60.

1. Eotvos Lorand Tudomanyegyetem Szarmazas- es Oroklestani Intezete,  
Budapest. Igazgato: Dr.Faludi Bela, egyetemi tanar.

GRIGORIU, Laura; DRAGAN, Lidia; TURTOI, D.

Contributions to the extraction of wolfram from wolfram concentrates. Rev chimie Min petr 15 no.6:324-329 Je '64.

TURTSAYEV, Zh. F., LEBEDINSKIY, A. V., ZAGURULKO, L. T., and DIONEZOV, S. N.

"The Effect of Physical Work on the Dark-adaptation of the Eye", Fiziolog. Zhurnal SSSR, Vol. 16, 5th ed., 1933.

TURTSAYEV, Zn. P., LEBEDINSKIY, A. V., and DIONASOV, S. M.

"The Effect of Reflex Excitations (Cold) on the Light Sensibility of the Dark-  
Adapted Eye", Fiziolog. Zhurnal SSSR, Vol. 17, 1st. ed., 1934.

SIMONOV, P.M.; KROPANEV, A.I.; TIUNOV, V.Ye.; VASIL'YEV, P.T.;  
TURTSEVA, I.M.; SAKALDINA, Ye.D.; DYLDIN, Yu.N.;  
BRAYLOVSKIY, N.G., inzh., red.; MEDVEDEVA, M.A., tekhn.  
red.

[Advanced method for car inspection and repair in trains;  
experience of the technical inspection point of the Sverd-  
lovsk-Sortirovochnaya Station of the Sverdlovsk Railroad]  
Perevodoi metod osmotra i remonta vagonov v poezdakh; opyt  
raboty punkta tekhnicheskogo osmotra stantsii Sverdlovsk-  
Sortirovochnyi Sverdlovskoi dorogi. Moskva, Transzheldor-  
izdat, 1963. 39 p. (MIRA 17:3)

SIMONOV, P.M.; KROPANEV, A.I.; TIUNOV, V.Ye.; VASIL'YEV, P.T.;  
TURTSEVA, I.M.; SAKALDINA, Ye.D.; DYLDIN, Yu.N.;  
BRAYLOVSKIY, N.G., inzh., red.; MEDVEDEVA, M.A., tekhn.  
red.

[Advanced method for the inspection and repair of cars  
in trains] Peredovoi metod osmotra i remonta vagonov v  
poezdakh. Moskva, Transzheldorizdat, 1963. 39 p.  
(MIRA 16:10)

(Railroads--Cars--Maintenance and repair)

TURTSUVA, V.

Cotton Growing--Azerbaijan

Grass sowing in cotton crop rotation in Azerbaijan. Khlopkovdstvo, no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, JUNE 1952. ~~1953~~, Uncl.

Country : USSR  
Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., № 22, 1958, № 100323

Author : Turtsova, V.V.  
Inst : Tashkent Academy of Sciences USSR  
Title : Results of the Studies of Forage Crops.

Orig Pub: V. sb.: Ref. nauchno-issled. rabot po  
khlopkovodstvu. Tashkent, AN USSR, 1957, 117-119

Abstract: The sowings of stubble and thickened forage crops make it possible to sharply increase the yield of forage crops from a unit of area. For the winter sowing in the conditions of Azerbaydzhan SSR, according to the data of the Scientific Research Institute of Cotton

Card : 1/3

M-77

Country : USSR

M

Category: Cultivated Plants. Fodders.

Abs Jour: RZhBiol., No 22, 1958, No 100323

Growing, the best mixture proved to be that of winter peas (varieties 1508 and 1528) with winter rye which produces in April 200-300 centners/ha of green roughage. After this mixture, corn is successfully cultivated, producing up to 100 centners/ha of ears in the milky-waxy stage, 300-400 centners/ha of green roughage of corn stalks and leaves or 80-100 centners/ha of kernels in the ears of full ripeness. The stubble-sown corn grown after barley, in addition to the yield of 35-40 centners/ha of barley grain, produces 80-90 centners/ha of corn ears in the milky-waxy stage or 250-300 centners/ha of green

Card : 2/3.

Country : USSR  
Category: Cultivated Plants. Fodders.

M

Abs Jour: RZhBiol., № 22, 1958, № 100323

roughage. The addition of Persian clover (*Trifolium resupinatum*) (5 kilograms of the seeds of Persian clover and 5 kilograms of alfalfa) to alfalfa produces an increase of up to 30 centners/ha in the yield of hay when sown for forage - the pure sowing of alfalfa give 70-80 centners/ha of hay, and mixtures with Persian clover - up to 110 centners/ha. The mixture of alfalfa with Persian clover (*Trifolium resupinatum*) does not lodge and is easily harvested. Good results were secured from the sowing of a mixture of alfalfa with Sudan grass (90-100 centners/ha of hay). -- N.I. Grib

Card : 3/3

M-78

PUTALOV, Yu.V., inzh.; TURTSEVICH, A.L., inzh.

Use of acid in a noncirculatory method for removing the incrustations from water-walls. Elek. sta. 32 no.7:76-77 J1 '61.  
(MIRA 14:10)

(Boilers--Incrustations)

TARABRIN, P.A., kand.veter. nauk; TURTSMANOVICH, V.I., starshiy nauchnyy so-trudnik

Selenium preparations for the prophylaxis of the white muscle disease in lambs and calves. Veterinariia 40 no.5:48-50 My 63. (MIRA 17:1)

1. Dal'nevostochnyy nauchno-issledovatel'skiy veterinarnyy institut.

KOMLEV, G.A.; LEVKOVSKIY, O.V.; TURBICOV, O.A.; SHIROKOV, A.V.

Use of reducers in the decoxidation of molten copper by the  
products of incomplete combustion of natural gas. Izv. Ak.  
Uz. SSR. Ser. tekhn. nauk ? no.2:94-97 '65. (Minsk 1968)

1. Sredazniprosvetmet.

MUNTZ, K., ing.; TURTUREANU, D., geolog

Presence of the Buglovian in the Jibert-Rodba region,  
southeast Transylvania. Petrol si gaze 15 no.5:219-  
221 My'64.

TURTURANU, N., ing.; SENCHEA, V., ing.

Some theoretical and practical problems on the curvature  
of calender and press rollers. Cel hirtie 10 no.12:440-  
447 D\*61.

TURTUREANU, N., ing.

News from enterprises. Cel hirtie 12 no.8/9:301 Ag-S '63.

TURTUREANU, N., ing.

Some theoretical and practical problems of the cylindrical  
sieve of papermaking machines. Cel hirtie 12 no.10:  
328-333 0'63.

TURTUREANU, N., ing.

Problems in manufacturing condenser paper. Cel hirtie 11 no.5:  
186-191 My'62.

TURTURIKOV, L.

A case of coxa vara following Looser's zones in pregnancy. Khi-  
rurgia (Sofilia) 16 no.11:1033-1034 '63.

KIPCHEV, Iv., dotsent; TURTUMIKOV, I.; MIRCHEV, M.; KUNEV, K.

Our experience with the treatment of gunshot wounds and  
open fractures. Knirvigliia 17 no.2:158-161 '64.

I. Iz Vissnija voennomeditsinski institut.

TURTURIKOV, L.; MOMCHEV, M.

Our experience in the treatment of fractures in old age.  
Khirurgiia 17 no.2:246-247 '64.

1. Iz Visshiia voenno-meditsinski institut, Sofiia.

ZHELIAZKOV, A.; TURTURIKOV, L.

An unusual form of progressive formation of fractures. Khirurgiia,  
Sofia 13 no.5:481-490 '60.

l. Obshtoarmeiska bolnitsa, Sofiia. Nachalnik M.Kutov.  
(FRACTURES étiol)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001757610014-9

GRATTI, V.E.; TUTTURYANU, N.A.

Forms of potassium and phosphorus in the *Soil Chernozems of Moldavia*. Izv. Nauk. fil. AN RSFSR, pp. 93-101 '61 (MTRIA 1737)

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001757610014-9"

30(1)

SOV/26-59-2-38/53

AUTHORS: Zagorodnyuk, Ya.F.; Turtsevich, E.S.

TITLE: Profuse Tillering of Winter Wheat (Moshchnoye ku-shcheniye ozimoy pshenitsy)

PERIODICAL: Priroda, 1959, Nr 2, p 111 (USSR)

ABSTRACT: The authors describe the phenomenon of a profuse growing of side-shoots from low-lying buds in young crops of winter wheat observed in autumn 1957 in the Cherkasskaya gosudarstvennaya nauchno-kokhzyayastvennaya opytnaya stantsiya (Cherkasskaya State Agricultural Experimental Station). The authors explain this phenomenon by the especially favorable interplay of cultivation method and weather conditions. The seed had been sown into bare fallow enriched with 25 tons of manure and mineral fertilizer. The sowing day of 5 September 1957 represented the best possible date in this region. The month of September 1957 had a precipitation of 34.4 mm which is nearly twice the

Card 1/2

Profuse Tillering of Winter Wheat

SOV/26-59-2-38/53

normal amount. There is 1 diagram.

ASSOCIATION: Cherkasskaya oblastnaya optytnaya stantsiya (Cherkasskaya Oblast' Experimental Station)

Card 2/2

ZAGORODNYUK, Ya, F.; TURTSEVICH, E.S.

Profuse tillering of winter wheat. Priroda 48 no.2:111 P '59.

1. Cherkasskaya oblastnaya optytnaya stantsiya.  
(Wheat)

DENISOVA, G. I.; TURTSEVICH, L. F.

Technological flow scheme of the manufacture of potato starch  
tapioca on a continuous production line. Sakh. prcm. 36 no.10:  
(MIRA 15:10)  
65-70 O '62.

(Starch products)

ACC NR: AT7002159

SOURCE CODE: UR/0000/66/000/000/0097/0102

AUTHOR: Virozub, I. Ye; Turtushkin, N. A.

ORG: Institute of Technical Thermophysics AN UkrSSR (Institut tekhnicheskoy teplofiziki AN UkrSSR)

TITLE: Aerodynamic losses due to the pipe branches in the air cooler of the GTU-25-700 gas turbine installation

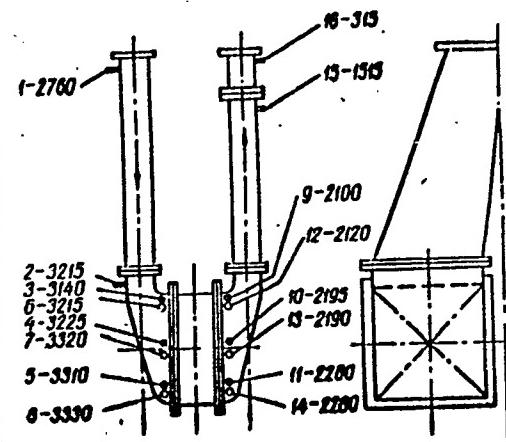
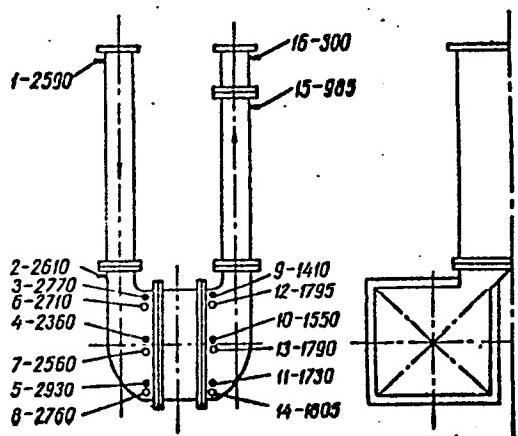
SOURCE: AN UkrSSR. Termodynamika teplovyykh dvigateley (Thermodynamics of heat engines). Kiev, Izd-vo Naukova dumka, 1966, 97-102

TOPIC TAGS: aerodynamic design, gas turbine, turbine compressor

ABSTRACT: Full-scale tests of the GTU-25-700 gas turbine installation in operation at the Kiev Heat and Electric Power Plant No. 2 show that considerable losses of pressure take place in the pipe branches of the air cooler between the high- and low-pressure compressors. It is shown that the aerodynamic losses in these elements may be considerably reduced by changes in design. A model of the existing air cooler is shown in Figure 1 with the improved model shown in Figure 2. The difference between the maximum and minimum static pressures in the second model is less than 200 mm water gauge, while the corresponding figure for the first model reaches 570 mm. While this factor certainly affects the operation of the cooler, the reduction in aerodynamic

Card 1/3

ACC NR: AT7002159



Card 2/3

ACC NR: AT/002159

losses alone results in an increase in the power of the installation. Estimates show that the power may be increased by design modifications of this type by approximately 300-400 kw. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13, 20/ SUBM DATE: 27Jul66

Card 3/3

TURU, KH. K.

TURU, KH. K.: "The character of fat accumulation in the liver cells as a function of the general state of the organism in intra-abdominal administration of oil (experimental-morphological investigation)." Tartu State U. Tartu, 1956.  
(Dissertation for the degree of Candidate in Medical Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

TURTURIKOV, L.

Our experience with the treatment of burns. Khirurgiia 15 no.5/6:  
487-493 '62.

1. Oblastna bolnitsa, Gr. Sinidzhu - Koreia. Gl. lekar:  
G. Mitrov.  
(BURNS surg) (SKIN TRANSPLANTATION)

KHAUG, N.A. [Haug, N.]; TURU, Kh.K. [Turu, H.]

Morphological changes in the adrenal cortex under the effect of  
anesthesia and artificial hypothermia. Probl. endok. i gorm.  
11 no.6:84-86 N-D '65. (MIRA 18:12)

1. Estonskiy institut eksperimental'noy i klinicheskoy meditsiny  
(dir. - prof. P.A.Bogovskiy) AMN SSSR, Tallin.

ACC NR: AR7000898

SOURCE CODE: UR/0058/66/000/009/H057/H057

AUTHOR: Podol'skiy, A. A.; Turubarov, V. I.

TITLE: Dependence of the degree of ambient flow of aerosol particles on the amplitude of the acoustic field at Reynolds numbers  $0.5 \leq Re \leq 1$

SOURCE: Ref. zh. Fizika, Abs. 9Zh406

REF SOURCE: Tr. Leningr. in-t aviats. priborostr. vyp. 45, 1965, 60-63

TOPIC TAGS: aerosol, acoustic field, ambient flow, Reynolds number, aerosol particle, aerosol motion, nonlinear equation, vibration velocity

ABSTRACT: An analysis is made of the motion of aerosol particles in an acoustic field at Reynolds numbers  $Re \leq 1$ . An analytical correlation between the coefficient of ambient flow and the amplitude of the acoustic field is obtained from an approximate solution of a nonlinear equation for particle motion. An increase in the amplitude of the field was found to produce a decrease in the degree of streamline flow and the angle of shift in the phase of the vibration velocity of the particle relative to the medium. [Translation of abstract] [SP]

SUB CODE: 20/

Card 1/1

PODOL'SKIY, A.A.; TURUBAROV, V.I.

Drift of aerosol particles in an acoustic field in an asymmetric  
distortion of the shape of a sound wave. Koll.zhur. 27 no.31425-  
427 My-Je '65. (MIRA 18:12)

1. Leningradskiy institut aviationsionnogo priborostroyeniya.  
Submitted March 27, 1964.

YUGOSLAVIA

TURUBATOVIC, R.; MAJSTOROVIC, G.; and ELEZOVIC, I., Veterinary Faculty  
(Veterinarski fakultet), Belgrade

"Live Vaccines in the Prevention of Newcastle Disease"

Belgrade, Veterinarski Glasnik, Vol 20, No 10, 1966, p. 757-761

Abstract [English summary modified]: Review of strains of Newcastle disease virus used for live vaccine production; adaptation methods to decrease the virulence, techniques of inoculation and of determining the degree of immunity obtained. Testing of 3 vaccines by authors in the field proved their adequacy. 3 Yugoslav, 10 Western references; manuscript received 26 May 66.

STABNIKOV, M.V.; TURUKHANO, B.G.; DOBYRN, V.V.; MISHCHENKO, I.S.;  
LUKASHUNAS, N.I.

Semiautomatic unit for measuring photographs of charged particle  
tracks. Prib. i tekhn. eksp. 10 no. 5:63-66 S-0 '65.  
(MIR 1931)  
1. Fiziko-tehnicheskiy institut AN SSSR, Leningrad. Submitted  
Aug. 6, 1964.

TURUTA, N.U., kand. tekhn. nauk; GALIMULLIN, A.T., kand. tekhn. nauk;  
PANCHENKO, D.F., inzh.; KARPINSKIY, A.V., inzh.; KOVALEVSKIY,  
S.Ye., inzh.

Studying the character of the breaking of a rock massif by  
detonating borehole charges. Vzryv. delo no.54/11:145-153 '64.  
(MIRA 17:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy  
institut ugol'noy, rudnoy, neftyanoy i gazovoy promyshlennosti,  
Kiyev.

KANDYBA, M.I., kand. tekhn. nauk; TURUTA, N.U., kand. tekhn. nauk;  
BLACODARENKO, Yu.L., gornyy inzh.; BAKHTIN, O.B., gornyy inzh.

Studying the seismic effect using modern techniques of  
boring and blasting operations. Vzryv. delo no.54/11:  
190-198 '64. (MIRA 17:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy  
institut ugod'noy rudnoy, neftyanoy i gazovoy promyshlennosti  
UkrSSR , Kiyev.

DENISOV, A.S.; PODOL'SKIY, A.A.; TURUBAROV, V.I.

Entrainment of aerosols in a sound field at Reynolds number  $\leq 1$ .  
Akust. zhur. 11 no.1:115-116 '65. (Mkh. 1c:4)

1. Leningradskiy institut aviationsionnogo priborostroyeniya.

NIKITENKO, V.I.; TURUBAROV, V.I.

Precipitation of zinc oxide in a low-frequency acoustic field.  
Lakokras.mat.i ikh prim. no.1:61-64 '63. (MIRA 16:2)  
(Zinc oxide) (Aercsols)